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23. Proposed by H. C. Whitaker, Professor of Mathematics, Manual Training School, Philadelphia, Pennsylvania.

A rectangular hall 80 feet long, 40 feet wide and 12 feet high has a spider in one corner of the ceiling. How long will it take the spider to crawl to the opposite corner on the floor if he crawls a foot in a second on the wall and two feet in a second on the floor?

24. Proposed by Mrs. Mary E. Hogsett, Danville, Kentucky.

On January 4, 1889, it was noticed that a clock was 15 minutes fast. On March 1, 1894, it was found to be six and one half minutes slow. When and what time was accurate time?

Solutions to these problems should be received on or before July 1st.

ALGEBRA.

Conducted by J. M. COLAW, Monterey, Va. All contributions to this department should be sent to him.

SOLUTIONS TO PROBLEMS.

11. Proposed by ISAAC L. BEVERAGE, Monterey, Virginia.

Two men, A and B, had a money-box, containing \$210, from which each drew a certain sum daily; this sum being fixed for each, but different for the two. After six weeks, the box was empty. Find the sum which each man drew daily from the box, knowing that A *alone* would have emptied it five weeks earlier than B *alone*,

I. Solution by W. L. HARVEY, Portland, Maine.

Let $x=$ amount B drew out daily, $mx=$ amount A drew out daily.

Then, $\dfrac{210}{x}-\dfrac{210}{mx}=35\ldots.(1)$, and $\dfrac{210}{x(m+1)}=42\ldots.(2)$.

Solving $m=1\frac{1}{2}$, whence $x=\$2$, and $mx=\$3$.

II. Solution by P. S. BERG, Apple Creek, Ohio.

Let $x=$ what A drew out daily, $y=$ what B drew out daily.

Then, $42x+42y=\$210\ldots.(1)$, and $\dfrac{210}{y}-\dfrac{210}{x}=35\ldots.(2)$.

Whence $x=3$, and $y=2$. $\therefore$ A drew out daily \$3, and B \$2.

Also solved by *M. A. GRUBER, H. W. DRAUGHON, H. C. WHITAKER, C. E. MYERS, G. B. M. ZERR, A. L. FOOTE*, and *ROBERT J. ALEY.*

12. Proposed by F. M. SHIELDS, Coopwood, Mississippi.

Three Lads, A, B, and C, each climbed to the top of an upright pole: A's pole was 20 feet high, B's 60 feet, and C's pole was 100 feet high. They all started at the same time, and each climbed up a part of the way, at the same rate of speed per minute, and after each rested five minutes, they ascended to the tops of their respective poles, at the same rate of speed per minute, when they found that each had consumed